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OM protein - protein search, using sw model

Run on: June 21, 2002, 08:23:31 ; Search time 93.48 Seconds.

(Without alignments)
91.492 Million cell updates/sec

Title: US-09-351-778A-11

Perfect score: 77
Sequence: 1 MTGSTAPTDYHRTATCL.....LICCLRRRARPPSLLOYD 77Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 747574 seqs, 11107396 residues

Word size : 0

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

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21: /SIDSI/gcgdata/hold-geneseq/geneseq-emb1/AA2000.DAT.*
22: /SIDSI/gcgdata/hold-geneseq/geneseq-emb1/AA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	77	100.0	77 22 AAB61871	Ad2 ADP mutant d17
2	77	90.9	78 22 AAB61869	Ad2 ADP mutant d17
3	70	90.9	87 22 AAB61870	Ad2 ADP mutant d17
4	70	90.9	101 19 AAM78902	Adenovirus death p
5	70	90.9	101 19 AAM75787	Adenovirus death p
6	70	90.9	101 19 AAM61197	Adenovirus death p
7	70	90.9	101 20 AAM98003	Adenovirus death p
8	70	90.9	101 21 AA184407	Adenovirus death p
9	70	90.9	101 21 AAB47551	Adenovirus death p
10	70	90.9	101 22 AAM50206	Adenovirus death p
11	70	90.9	101 22 AAB61866	Ad2 encoded adenov

12	47	61.0	101 19 AAM59925	Adenovirus death p
13	40	51.9	40 22 AAB61873	Ad2 ADP putative 1
14	30	39.0	95 22 AAB61868	Ad6 encoded adenov
15	28	36.4	84 22 AAB61872	Ad2 ADP mutant d17
16	24	31.2	93 22 AAB61867	Ad5 encoded adenov
17	19	24.7	19 22 AAB61874	Ad2 ADP transmembr
18	18	23.4	94 22 AAB61865	Ad1 encoded adenov
19	11	14.3	42 22 AAB61876	Ad2 ADP cytosolic
20	8	10.4	8 22 AAB61875	Ad2 ADP cytosolic
21	7	9.1	67 22 AAB58067	Protonbacterium
22	7	9.1	68 22 AAB17551	Human nervous syst
23	7	9.1	157 21 AAG18744	zea mays protein f
24	7	9.1	197 20 AAY34853	C. pneumoniae cell
25	7	9.1	197 22 AAU43319	Propionibacterium
26	7	9.1	231 22 AAM83988	Human immune/naema
27	7	9.1	242 21 AAG04903	Arabidopsis thalia
28	7	9.1	242 21 AAG59416	Arabidopsis thalia
29	7	9.1	273 22 AAG05846	Novel human diagn
30	7	9.1	316 21 AAG04902	Arabidopsis thalia
31	7	9.1	316 21 AAG59415	Arabidopsis thalia
32	7	9.1	404 22 ABB65340	Drosophila melanog
33	7	9.1	473 22 AAG26845	Novel human diagn
34	7	9.1	482 21 AAY66786	Soybean sucrose no
35	7	9.1	635 22 ABB66261	Drosophila melanog
36	7	9.1	1401 18 AAY14519	Mouse WRN gene pro
37	7	9.1	1401 19 AAM59454	Mouse WRN helicase
38	7	9.1	1401 20 AAM97841	Murine WRN polype
39	6	7.8	15 22 AAG78731	Human copper/zinc
40	6	7.8	38 22 ABB44015	Human polypeptide
41	6	7.8	43 22 AAB64363	Peptide #11521 enc
42	6	7.8	43 22 AAM65030	Human brain expres
43	6	7.8	43 22 AAM77745	Human bone marrow
44	6	7.8	43 22 AAM21656	Peptide #8090 enco
45	6	7.8	43 22 AAM37959	Peptide #11996 enc

ALIGNMENTS

RESULT 1	
1	AAB61871
ID	AAB61871 standard. Protein: 77 AA.
XX	
AC	AAB61871:
XX	
DT	08-MAY-2001 (first entry)
XX	
DE	Ad2 ADP mutant d1714.
XX	
KW	Adenovirus death protein; ADP; neoplastic; cell death; cancer therapy;
KM	anti-cancer; gene therapy; cytosolic; Ad2; mutant.
OS	
XX	Mastadenovirus.
PN	
XX	W0200104282-A2.
PD	
XX	18-JAN-2001.
XX	
PF	12-JUL-2000; 2000MO-US18971.
XX	
PR	12-JUL-1999; 9905-0351778.
XX	
XX	(UYSL-) UNTV SAINT LOUIS.
PA	
XX	Wold MSM, Toch K, Doronin K, Tollefson AE;
PI	
XX	WPI; 2001-103079/11.
DR	
XX	
FT	Recombinant vector which is replication-competent in a neoplastic cell
FT	and overexpresses an adenovirus death protein, useful in cancer therapy
PT	when used together with replication-defective adenovirus which
PT	expresses an anti-cancer gene -
XX	
XX	

PS Example 9; Fig 20; 196pp; English.

CC The invention relates to a recombinant vector (VI) which is replication-competent in a neoplastic cell and which overexpresses an adenovirus death protein (ADP). The vector can be used in a method for promoting death of a neoplastic cell that comprises contacting the neoplastic cell with at least one VI; and a composition comprising VI and a second recombinant anti-cancer gene product, where VI complements replication of the second recombinant virus; or (b) replication-competent in a neoplastic cell. VI, together with one or more replication-defective adenovirus which expresses an anti-cancer gene product, are useful in cancer therapy. Overexpression of ADP by VI results in faster lysis of cells and spread of the virus throughout a cell monolayer than viruses expressing wild-type levels of ADP. The present sequence represents the amino acid sequence of an Ad2 ADP mutant.

SO Sequence 77 AA:

Query Match 100.0%; Score 77; DB 22; Length 77;
Best Local Similarity 100.0%; Pred. No. 8,7e-69;
Matches 77; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MTGSIATPTDYRNTATGLTSALNLPQVNAFVNDNASLDMWFSTALMFVCLIMLIC 60
| | | | |
DB 1 mtgstlaptldyrintatcgltsalnlpqvnafvndwasldmwfslalmfvcclimwlic 60
| | | | |

OY 61 CLKRRRAPPSSLLOYD 77
| | | | |
DB 61 CLKRRRAPPSSLllyd 77
| | | | |

RESULT 2
AAB61869 standard; Protein: 78 AA.

AC AAB61869;
DT 08-MAY-2001 (first entry)
DE Ad2 ADP mutant dl716.
KW Adenovirus death protein; ADP; neoplastic; cell death; cancer therapy; anti-cancer; gene therapy; cytostatic; Ad2; mutant.
OS Mastadenovirus.
XX WO200104282-A2.
XX 18-JAN-2001.
XX 12-JUL-2000; 2000MO-US18971.
XX 12-JUL-1999; 99US-0351778.
XX (UYSL-) UNIV SAINT LOUIS.
XX Wold WSM, Toth K, Doronin K, Tollefson AE;
XX MPI; 2001-103079/11.
XX
PT Recombinant vector which is replication-competent in a neoplastic cell and overexpresses an adenovirus death protein, useful in cancer therapy
PT when used together with replication-defective adenovirus which
PT expresses an anti-cancer gene -
XX
XX Example 9; Fig 20; 196pp; English.
CC The invention relates to a recombinant vector (VI) which is replication-competent in a neoplastic cell and which overexpresses an adenovirus death protein (ADP). The vector can be used in a method for promoting death of a neoplastic cell that comprises contacting the neoplastic cell

CC with at least one VI; and a composition comprising VI and a second recombinant virus which is: (a) replication-defective and which expresses an anti-cancer gene product, where VI complements replication of the second recombinant virus; or (b) replication-competent in a neoplastic cell. VI, together with one or more replication-defective adenovirus which expresses an anti-cancer gene product, are useful in cancer therapy. Overexpression of ADP by VI results in faster lysis of cells and spread of the virus throughout a cell monolayer than viruses expressing wild-type levels of ADP. The present sequence represents the amino acid sequence of an Ad2 ADP mutant.

SO Sequence 78 AA:

Query Match 90.9%; Score 70; DB 22; Length 78;
Best Local Similarity 100.0%; Pred. No. 7,6e-62;
Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MTGSIATPTDYRNTATGLTSALNLPQVNAFVNDNASLDMWFSTALMFVCLIMLIC 60
| | | | |
DB 1 mtgstlaptldyrintatcgltsalnlpqvnafvndwasldmwfslalmfvcclimwlic 60
| | | | |

OY 61 CLKRRRAPP 70
| | | | |
DB 61 CLKRRRAPP 70
| | | | |

RESULT 3
AAB61870 standard; Protein: 87 AA.

AC AAB61870;
DT 08-MAY-2001 (first entry)
DE Ad2 ADP mutant dl715.
KW Adenovirus death protein; ADP; neoplastic; cell death; cancer therapy; anti-cancer; gene therapy; cytostatic; Ad2; mutant.
OS Mastadenovirus.
XX WO200104282-A2.
XX 18-JAN-2001.
XX 12-JUL-2000; 2000MO-US18971.
XX 12-JUL-1999; 99US-0351778.
XX (UYSL-) UNIV SAINT LOUIS.
XX Wold WSM, Toth K, Doronin K, Tollefson AE;
XX MPI; 2001-103079/11.
XX
PT Recombinant vector which is replication-competent in a neoplastic cell and overexpresses an adenovirus death protein, useful in cancer therapy
PT when used together with replication-defective adenovirus which
PT expresses an anti-cancer gene -
XX
XX Example 9; Fig 20; 196pp; English.
CC The invention relates to a recombinant vector (VI) which is replication-competent in a neoplastic cell and which overexpresses an adenovirus death protein (ADP). The vector can be used in a method for promoting death of a neoplastic cell that comprises contacting the neoplastic cell with at least one VI; and a composition comprising VI and a second recombinant anti-cancer gene product, where VI complements replication of the second recombinant virus; or (b) replication-competent in a neoplastic cell. VI, together with one or more replication-defective adenovirus which expresses an anti-cancer gene product, are useful in

CC cancer therapy. Overexpression of ADP by V1 results in faster lysis of
 CC cells and spread of the virus throughout a cell monolayer than viruses
 CC expressing wild-type levels of ADP. The present sequence represents the
 CC amino acid sequence of an Ad2 ADP mutant.

SO Sequence 87 AA:

Query Match 90.9%; Score 70; DB 22; Length 87;
 Best Local Similarity 100.0%; Pred. No. 8.3e-62;
 Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCGSTIAPTDTDRNTATGTSALNLPQVHAFFVNDWASLDMMFSLALMFVCLIMMLIC 60
 DB 1 mtgstlaptcdyrintatcgtltsalnlpqvhafrvndwasldmmfslalmfvclimmlc 60

OY 61 CLKRRRARRP 70
 DB 61 clkrtrrarp 70

RESULT 4

AAW78902 standard; Protein: 101 AA.

AC AAW78902;

DT 21-DEC-1998 (first entry)

DE Adenovirus death protein.

XX Carcinoembryonic antigen: transcriptional regulatory element;

KM CEA-TRE; human; promoter; enhancer; vector; cancer; gene therapy;

KM PCR; primer; adenovirus death protein; ADP.

XX Mastadenovirus.

XX W09839467-A2.

PD 11-SEP-1998.

PF 03-MAR-1998; 98WO-US04133.

PR 02-MAR-1998; 98US-0039763.

PR 03-MAR-1997; 97US-0039763.

PA (CALY-) CALYDON INC.

PI Henderson DR, Lamparski HG, Schuur ER.

DR WPI: 1998-495862/42.

DR N-PSDB; AAV52966.

PT New adenovirus vectors, particularly for cancer therapy - comprising

PT adenovirus gene under transcriptional control of carcinoembryonic

PT antigen transcriptional regulatory element

PS Disclosure: Page 68; 95pp; English.

CC This is the amino acid sequence of adenovirus death protein (ADP).

CC Claimed replication-competent adenovirus (Ad) vectors comprise an

CC Ad gene under transcriptional control of a CBA-TRE. The vectors can

CC be used to detect and monitor samples for the presence of cells that

CC allow a CBA-TRE to function, and to selectively kill such cells,

CC especially malignant cells. Vectors containing an ADP gene (see

CC AAV52966) may be more potent than vectors lacking the gene, making

CC possible more effective treatment and/or lower dosage requirement.

XX Sequence 101 AA:

Query Match 90.9%; Score 70; DB 19; Length 101;
 Best Local Similarity 100.0%; Pred. No. 9.3e-62;

Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCGSTIAPTDTDRNTATGTSALNLPQVHAFFVNDWASLDMMFSLALMFVCLIMMLIC 60
 DB 1 mtgstlaptcdyrintatcgtltsalnlpqvhafrvndwasldmmfslalmfvclimmlc 60

OY 61 CLKRRRARRP 70
 DB 61 clkrtrrarp 70

RESULT 5

AAW75787 standard; Protein: 101 AA.

AC AAW75787;

DT 21-DEC-1998 (first entry)

DE Adenovirus death protein.

XX Probasin transcriptional response element; PB-TRE; rat;

KM androgen receptor; adenovirus; vector; prostate cancer;

KM gene therapy; adenovirus death protein; ADP.

XX Mastadenovirus.

XX W09839466-A2.

PD 11-SEP-1998.

PF 03-MAR-1998; 98WO-US04132.

PR 02-MAR-1998; 98US-0033333.

PR 03-MAR-1997; 97US-0039762.

PA (CALY-) CALYDON INC.

PI Henderson DR, Lamparski HG, Schuur ER, Yu D;

DR WPI: 1998-506369/43.

DR N-PSDB; AAV57354.

PT New adenovirus vectors, particularly for cancer therapy - comprising

PT adenovirus gene under transcriptional control of a probasin

PT transcriptional regulatory element

PS Disclosure: Page 96; 117pp; English.

CC This is the amino acid sequence of adenovirus death protein (ADP).

CC Claimed replication-competent adenovirus (Ad) vectors comprise an

CC Ad gene under transcriptional control of a probasin transcriptional

CC response element (PB-TRE, see AAV57354). The vector can be used for

CC detecting cells that allow a PB-TRE to function, especially cells

CC expressing an androgen receptor, such as prostate cells. They can

CC be used to confer selective toxicity to such cells. In particular,

CC the vectors can be used for treating cancers such as prostate cancer.

CC Ad vectors containing the ADP gene (see AAV57354) may render the

CC vector more potent, making possible more effective treatment and/or

CC a lower dosage requirement. An Ad vector has been constructed that

CC contains the ADP gene under control of PB-TRE. Cytotoxicity was

CC demonstrated toward LNCaP (prostate carcinoma) cells.

Query Match 90.9%; Score 70; DB 19; Length 101;
 Best Local Similarity 100.0%; Pred. No. 9.3e-62;
 Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MCGSTIAPTDTDRNTATGTSALNLPQVHAFFVNDWASLDMMFSLALMFVCLIMMLIC 60
 DB 1 mtgstlaptcdyrintatcgtltsalnlpqvhafrvndwasldmmfslalmfvclimmlc 60

OY 61 CLKRRRARP 70
 DB 61 CLKRRRARP 70

RESULT 6

AAW61197
 ID AAW61197 standard; Protein: 101 AA.

AC AAW61197;

DT 07-DEC-1998 (first entry)

DE Adenovirus death protein.

KW Adenovirus death protein; ADP; vector; hepatoma; cancer;

KW alpha-fetoprotein transcription regulatory element; AFP-TRE;

KW hepatocellular carcinoma; hepatoma; gene therapy; human.

OS Mastadenovirus type 2.

PN W09839465-A2.

PD 11-SEP-1998.

PF 03-MAR-1998; 98WO-US04084.

PR 02-MAR-1998; 98US-0039597.

PR 03-MAR-1997; 97US-0039597.

PA (CALY-) CALYDON INC.

PI Henderson DR, Lamparski HG, Little AS, Schuur ER;

DR WPI; 1998-495861/42.

DR N-PSDB; AAV47675.

PT New adenovirus vector, for treating cancers - comprising an

PT adenovirus gene under the transcriptional control of an alpha

PT fetoprotein transcription regulatory element

PS Claim 29; Page 74; 102pp; English.

XX This is the amino acid of the adenovirus death protein (ADP) of

CC of adenovirus type 2. The ADP coding sequence (see AAV47675), with

CC or without the y leader, can be introduced into an adenoviral

CC genome, e.g. in the E3 or E4 region. Inclusion of such a coding

CC sequence in an adenoviral vector significantly enhances the extent

CC of cytotoxicity, cell killing and virus production. The invention

CC provides replication-competent adenovirus vectors which

CC preferentially replicate in cells that express alpha-fetoprotein

CC (AFP), particularly hepatoma cells. The vectors comprise at

CC least one adenovirus gene, preferably a gene that contributes to

CC cytotoxicity, under the transcriptional control of an AFP

CC transcription regulatory element (see AAV47654-55). The vectors

CC are useful for conferring selective cytotoxicity to AFP-expressing

CC cells, especially cancer cells.

XX Sequence 101 AA;

SO

Query Match 90.9%; Score 70; DB 19; Length 101;
 Best Local Similarity 100.0%; Pred. No. 9.3e-62;
 Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MTGSIAPPTDYRNTATGTSALNLPVHAFVNDMSLDMMWFSIALMFVCLIMWLC 60
 DB 1 mtgslapptdyrntatgtsalnlpvhafvndmsldmmwfsialmfvcilimwllc 60

OY 61 CLKRRRARP 70
 DB 61 CLKRRRARP 70

RESULT 7

AAW98003
 ID AAW98003 standard; Protein: 101 AA.

AC AAW98003;

DT 21-JUN-1999 (first entry)

DE Adenovirus death protein.

KW Enhancer; glandular kallikrein-1; hGK-1; hKIK2; human;

KW prostate cancer; therapy; adenovirus death protein.

OS Mastadenovirus 2.

PN W09906576-A1.

PD 11-FEB-1999.

PF 04-AUG-1998; 98WO-US16312.

PR 03-AUG-1998; 98US-0127834.

PR 04-AUG-1997; 97US-0054523.

PR 02-MAR-1998; 98US-0076545.

PA (CALY-) CALYDON INC.

PI Hardenson DR, Schuur ER, Yu D;

DR WPI; 1999-153804/13.

DR N-PSDB; AAX24756.

PT New nucleic acid containing the human glandular kallikrein enhancer

PT - providing increased expression of heterologous sequences in

PT prostatic cells, and related adenoviral vectors for treating

PT prostatic cancer

PS Disclosure; Page 165-166; 179pp; English.

XX This protein comprises the adenovirus death protein (ADP) of

CC adenovirus serotype 2. The invention provides novel adenovirus

CC vectors in which at least one adenovirus gene, preferably one that

CC contributes to cytotoxicity, is placed under transcriptional

CC control of a human glandular kallikrein hKIK2 enhancer

CC transcriptional regulatory element (hKIK2-TRE; see AAX24755). Such

CC vectors are useful for treatment of cancers such as prostate

CC cancer. The ADP gene may render the adenoviral vector more potent.

CC making possible more effective treatment and/or lower dosage

CC requirement.

XX Sequence 101 AA;

SO

Query Match 90.9%; Score 70; DB 20; Length 101;
 Best Local Similarity 100.0%; Pred. No. 9.3e-62;
 Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MTGSIAPPTDYRNTATGTSALNLPVHAFVNDMSLDMMWFSIALMFVCLIMWLC 60
 DB 1 mtgslapptdyrntatgtsalnlpvhafvndmsldmmwfsialmfvcilimwllc 60

OY 61 CLKRRRARP 70
 DB 61 CLKRRRARP 70

RESULT 8
 ID AAW84407 standard; Protein: 101 AA.
 AC AAW84407;

KW vector: breast cancer; prostate cancer; liver cancer; colon cancer;
 KW gene therapy.
 XX Mastadenovirus.
 OS
 XX MO9839464-A2.
 PN
 XX
 PD 11-SEP-1998.
 XX
 PF 03-MAR-1998; 98WO-US04080.
 XX
 PR 02-MAR-1998; 98US-0054523.
 XX
 PR 03-MAR-1997; 97US-0039762.
 XX
 PR 03-MAR-1997; 97US-0039763.
 XX
 PR 04-AUG-1997; 97US-0054523.
 XX
 PA (CALY-) CALYDON INC.
 XX
 PI Henderson DR, Lamparski HG, Yu D;
 DR WPI: 1998-495860/42.
 DR N-PSDB; AAV53632.
 XX
 PT New adenovirus vectors, used for treating tumours - comprising first
 PT and second adenovirus genes under control of different heterologous
 PT transcriptional regulatory elements
 XX
 PS Disclosure: Page 94; 130pp; English.
 XX
 CC This is the amino acid sequence of adenovirus death protein (ADP).
 CC The invention provides replication-competent adenovirus vectors
 CC specific for target cells and methods of using such vectors. The
 CC vectors contain heterologous transcription regulatory elements
 CC (TREs) and may incorporate a gene, such as the ADP gene (see
 CC AAV53632), which can contribute to cytotoxicity in the target cell.
 CC Adenoviral replication can be restricted to target cells in which
 CC the heterologous TREs are functional and thus the vectors can
 CC provide selective cytotoxicity to the target cells (e.g. prostate,
 CC liver, breast or colon), particularly neoplastic cells.
 CC
 SQ Sequence 101 AA:

Query Match 61.0%; Score 47; DB 19; Length 101;
 Best Local Similarity 100.0%; Pred. No. 5.7e-39;
 Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 24 LNLQVHAFVNDMSLDMMFSLALMFVCLIMWLICGLKRRARP 70
 ||||||||||||||||||||||||||||||||||||||||
 Db 24 Lnlpyhahfvndwslldmwfslalmfvclllmwllcclkrtrarp 70

RESULT 13
 AAB61873
 ID AAB61873 standard; Protein: 40 AA.
 XX
 AC AAB61873;
 XX
 OS
 XX 08-MAY-2001 (first entry)
 DT
 XX
 DE Ad2 ADP putative luminal domain.
 XX
 KW Adenovirus death protein; ADP; neoplastic; cell death; cancer therapy;
 KW anti-cancer; gene therapy; cytostatic; Ad2.
 XX
 OS Mastadenovirus.
 XX
 PN MO200104282-A2.
 PD
 XX 18-JAN-2001.
 PD
 XX 12-JUL-2000; 2000WO-US18971.
 PF
 XX

PR 12-JUL-1999; 99US-0351778.
 XX
 PA (UYSL-) UNIV SAINT LOUIS.
 XX
 XX Mould WSM, Toth K, Doronin K, Tollefson AE;
 PI WPI: 2001-103079/11.
 DR
 XX
 XX
 PT Recombinant vector which is replication-competent in a neoplastic cell
 PT and overexpresses an adenovirus death protein, useful in cancer therapy
 PT when used together with replication-defective adenovirus which
 PT expresses an anti-cancer gene -
 XX
 PS Example 9; Fig 20; 196pp; English.
 XX
 CC The invention relates to a recombinant vector (V1) which is replication-
 CC competent in a neoplastic cell and which overexpresses an adenovirus
 CC death protein (ADP). The vector can be used in a method for promoting
 CC death of a neoplastic cell that comprises contacting the neoplastic cell
 CC with at least one V1; and a composition comprising V1 and a second
 CC recombinant virus which is: (a) replication defective and which
 CC expresses an anti-cancer gene product, where V1 complements replication
 CC of the second recombinant virus; or (b) replication-competent in a
 CC neoplastic cell. V1, together with one or more replication-defective
 CC adenovirus which expresses an anti-cancer gene product, are useful in
 CC cancer therapy. Overexpression of ADP by V1 results in faster lysis of
 CC cells and spread of the virus throughout a cell monolayer than viruses
 CC expressing wild-type levels of ADP. The present sequence represents the
 CC amino acid sequence of an Ad2 ADP putative luminal domain.
 CC
 SQ Sequence 40 AA:

Query Match 51.9%; Score 40; DB 22; Length 40;
 Best Local Similarity 100.0%; Pred. No. 2.3e-32;
 Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MFGSTIAPTTDRNTTANGLSALNLQVHAFVNDMSLD 40
 ||||||||||||||||||||||||||||||||||||
 Db 1 mtgstlapttdyrrntatgtlsalnlpvhafvndwslid 40

RESULT 14
 AAB61868
 ID AAB61868 standard; Protein: 95 AA.
 XX
 AC AAB61868;
 XX
 OS
 XX 08-MAY-2001 (first entry)
 DT
 XX
 DE Ad6 encoded adenovirus death protein (ADP).
 XX
 KW Adenovirus death protein; ADP; neoplastic; cell death; cancer therapy;
 KW anti-cancer; gene therapy; cytostatic; Ad6.
 XX
 OS Mastadenovirus.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..26
 FT Peptide 41..59
 FT Peptide 63..70
 FT Peptide /note= "fragment specifically claimed for"
 FT /note= "fragment specifically claimed for"
 XX
 PN MO200104282-A2.
 PD
 XX 18-JAN-2001.
 PD
 XX 12-JUL-2000; 2000WO-US18971.
 PF
 XX 12-JUL-1999; 99US-0351778.
 PR
 XX

PA	(UYSL-) UNIV SAINT LOUIS.
XX	
PI	Mold MSM, Toch K, Doronin K, Tollefson AE;
XX	
DR	WPI: 2001-103079/11.
XX	
PJ	Recombinant vector which is replication-competent in a neoplastic cell
PT	and overexpresses an adenovirus death protein, useful in cancer therapy
PJ	when used together with replication-defective adenovirus which
PJ	expresses an anti-cancer gene -
PS	
CC	Claim 5; Page 157; 196pp; English.
XX	
CC	The invention relates to a recombinant vector (V1) which is replication-
CC	competent in a neoplastic cell and which overexpresses an adenovirus
CC	death protein (ADP). The vector can be used in a method for promoting
CC	death of a neoplastic cell that comprises contacting the neoplastic cell
CC	with at least one V1; and a composition comprising V1 and a second
CC	recombination virus which is: (a) replication defective and which
CC	expresses an anti-cancer gene product, where V1 complements replication
CC	of the second recombination virus; or (b) replication-competent in a
CC	neoplastic cell. V1, together with one or more replication-defective
CC	adenovirus which expresses an anti-cancer gene product, are useful in
CC	cancer therapy. Overexpression of ADP by V1 results in faster lysis of
CC	cells and spread of the virus throughout a cell monolayer than viruses
CC	expressing wild-type levels of ADP. The present sequence represents the
CC	amino acid sequence of an ADP encoded by Ad6.
SQ	
Sequence	95 AA:
Query Match	39.0%; Score 30; DB 22; Length 95;
Best Local Similarity	100.0%; Pred. No. 3,8e-22;
Matches	30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	41 MMWFSLALFVCLITIMWLICCLRARRAPP 70
Dd	35 MWFSIALMFVCLILMWLICCLRARRAPP 64
RESULT 15	
AAB61872	AAB61872 standard; Protein; 84 AA.
XX	
AC	AAB61872;
XX	
DT	08-MAY-2001 (first entry)
XX	
DE	Ad2 ADP mutant dI737.
XX	
KM	Adenovirus death protein; ADP; neoplastic; cell death; cancer therapy;
KM	anti-cancer; gene therapy; cytostatic; Ad2; mutant.
XX	
OS	Mastadenovirus.
XX	
PN	MO200104282-AZ.
XX	
PD	18-JAN-2001.
XX	
PF	12-JUL-2000; 2000MO-US18971.
XX	
PR	12-JUL-1999; 99US-0351778.
XX	
PA	(UYSL-) UNIV SAINT LOUIS.
XX	
PI	Mold MSM, Toch K, Doronin K, Tollefson AE;
XX	
DR	WPI: 2001-103079/11.
XX	
PT	Recombinant vector which is replication-competent in a neoplastic cell
PT	and overexpresses an adenovirus death protein, useful in cancer therapy
PT	when used together with replication-defective adenovirus which
PT	expresses an anti-cancer gene -

[illegible]

Search completed: June 21, 2002, 08:23:32
Job time: 197 sec
